

Detailed Resume

1. **Name in full (in block letters): Prof. Dr. GOUTAM SUTRADHAR**
2. **Current Position:** Director, National Institute of Technology Manipur
3. **Father's Name: SRI JITENDRANATH SUTRADHAR**
Address for communication (Block letters): LAKSMI KANTA ABASH ,
FLAT NO.3A&B, 198/1 DUM DUM ROAD , KOLKATA – 700074 ,West Bengal
4. **Contact Nos.:** 033-2414-6890 (O),033-2560-8493 (R), +919830342891(M)
5. **Nationality:** INDIAN **Email ID:** goutam_sutradhar1@rediffmail.com
6. **Date of Birth:** 20-08-1963 **Age as on 01.01.2018:** 54years 03 months, **Gender:** Male
7. **Educational qualifications (from Matriculation onwards) with subjects & percentage of marks and the Board / University from where passed in tabular form along with attested copies of the testimonials - Annexure- I**

Sl. No.	Name of Examination	Name of the Board / University	Subjects	Year of Passing	Percentage of Marks	Division/ Class
1.	PhD (Engg.)	BIT,Mesra (Deemed Univ)	Development of P/M Sintered Components	1998	NA	NA
2.	M.Tech (Mech.Engg.)	IIT Kharagpur	Specialization in Foundry Technology	1987	6.93 CGPA out of total grade point 10	Ist. Class
3.	B.E (Mech. Engg.)	Jalpaiguri Govt. Engg. College	Mechanical Engineering subjects	1985	75.2%	Ist. Class
4..	Higher Secondary (10+2)	West Bengal Council of Higher Secondary Education	Bengali, English, Physics , Chemistry. Mathematics	1980	62.90% (Without additional subject)	Ist. Div
5.	Matriculation	West Bengal Board of Secondary Education	Beng,Eng,Sanskrit,Math,Ph. Sc, Life Sc., Hist, Geo etc.	1978	55.20%	II nd. Div

8. **Field / Area of Specialization:** **Mechanical Engineering with Specialization in Manufacturing Engineering**

9. List of all previous employment (Most recent first together with details of duties, Pay Scale and salary drawn) / Experience (Administrative, Academic & Research) in following sequence:

Sl. No.	Name & Address of the Employer	Name of the Post	Date of Joining	Date of leaving	Salary/Present Basic Pay
1.	Jadavpur University Kolkata - 32	Professor.	24.2.2005	Till Date	PB-4(Rs.37,400-67,000) - Revised
2.	Kalyani Government Engineering College, Kalyani, W.B	Professor Asstt. Professor	6.2.2003 1.12.2000	23.2.2005 5.2.2003	Rs.16,400-450-22,400/- <u>(Old Scale)</u> Rs.12000-18300/- <u>(Old Scale)</u>
3.	College of Textile Technology, Serampore, W.B	Asstt. Professor	19.6.1997	30.11.2000	Rs.12000-18300/- <u>(Old Scale)</u>
4.	National Institute of Foundry & Forge Technology, Ranchi, Jharkhand.(MHRD).	Asstt. Professor Lecturer	06.2.1995 01.8.1991	18.6.1997 05.2.1995	Rs.12000-18300/- Rs.2200/- - 4000/-
5.	S.E Rly Workshop Kharagpur	Asstt. Shop Supdt	17.1.1989	31.7.1991	Rs.2000/- - 3200/-
6.	E.Rly.Workshop Kanchrapara&Liluah	Trainee Asstt. Shop Supdt	14.3.1988	15.1.1989	Rs.2000/- -3200/-
7.	Hindustan Motors Limited, Hindmotor	Graduate Engineer Trainee	12.3.1987	11.3.1988	Consolidated Rs.1825/- plus Med. Allowances

Administrative Experience (Additional Charge)

Designation	Number of Years of Experience	Details
Professor & Head of Mechanical Engineering	Since 16.01.2018	Look after the day to day activities of the Department,
Professor In-Charge M.Tech Admission	2012-2013 & 2013-2014	Complete admission procedure
Joint Director , School of Automotive Engineering, Jadavpur University, Kolkata (Additional Charge for TIFAC,DST Project)	August 2010 to 2014 Four Years	Look after the activities particularly on TIFAC , DST sponsored project on “A Study on the Technology Gap Analysis of Howrah Foundry Cluster” and also its implementation
Head of Mechanical Engineering, Kalyani Govt. Engineering College, Kalyani	01.03.2003 to 23.02.2005 Nearly Two years	Look after the day to day activities of Mechanical Engineering Department, Establish of new laboratories
Professor In-charge Training & Placement	01.01.2003-23.02.2005	UG & PG Students

10. **Attach prints in the following sequence clearly indicating (In case of academician / Researcher):
Attached Annexure - III**

Sl. No	No. of Patents	No. of Awards/ Recognitions	No. of PhD guided (Completed/ Progress)	No. of Publications National/ International	No. of Books Published/ under Pub	No. of Projects Completed /In Progress	Details of Membership in societies
	Nil	06	11/07	21/ 57	02	11	05

11. **Name and Address of two referees (not related to the candidate):**

(i) Name: Prof.Suranjan Das

(ii) Name: Prof.Ajoy Ray

Designation: Vice-Chancellor Designation: Director

Name of the Organization:Jadavpur University Name of the Organization: Indian Institute of

Address: 188, Raja S.C.Maulik Road

Engineering, Science & Technology (IEST)

Kolkata- 700032 Address: Shibpur , Howrah - 3

[Tel:033-24146000\(o\)](tel:033-24146000) Tel: 033-26682674 (o)

Email: suranjandas2000@yahoo.co.in

Email :director@iiests.ac.in,ajoy_ray2004@yahoo.com

12. Any other information :

Cluster Development:

Convener of the Project sponsored by Technology Information Forecasting Assessment Council (TIFAC), DST, New Delhi on “**A study on the Technology Gap Analysis of Howrah Foundry Cluster**” – Completed

Reviewed 20 DVDs [about 40 hours] of recording and time line of 4 weeks to launch a portal containing courses on **Casting Design and Simulation** by **Prof. B. Ravi, Chair Professor, Department of Mechanical Engineering , IIT Bombay** organized by Dept of Chemical Engineering, IIT Bombay under **Talk To A Teacher Project** funded by **Ministry of Human Resources and Development (MHRD) , New Delhi.**

Reviewer of the Institution of Engineers (India) Mechanical & Production Engineering Division

Awards / Recognitions: 06 (Six)

- 1. Best Teacher in Foundry Technology in Eastern Region by Institute of Indian Foundrymen- Eastern Region on National Foundry Day on 17th.August 2016**
- 2. Best Paper** award from **Institution of Engineers (I)** for the paper entitled “**Tribological Properties of Al-SiC Metal Matrix Composites : A comparison Between Sand Cast and Squeeze Cast Techniques**” published in the Series “D” Journal of IIEI , Vol. 95, issue 2 will be presented in 30th. Indian Engineering Congress on 18th.Dec 2015.
- 3. EMNITE – Fellowship** coordinated by Lund University, Sweden for one month to study on Natural Fiber reinforced Bio- Degradable Polymers at KULUVEN, Belgium under Prof. Jan Ivans during 17.11.2014 to 17.12.2014.
- 4. Best Paper** award in the area of **Non Ferrous Castings** published in **Indian Foundry Journal during 2011-2012.**
- 5. SERC Visiting Fellowship** (DST, New Delhi) has been awarded under Manufacturing Engineering for three months to do collaborative work. The above fellowship has been carried out under the guidance of Prof.M.M.Godkhindi , Department of Metallurgy & Material Science of I.I.T Kharagpur in the area of Metal Powder Forging Area in 1995.
- 6. Year of merit award in 1995-96** from Institute of Engineers (India) for the Technical Paper entitled “Cold Forging of Polygonal Discs” published the Journal of Institute of Engineers (I).

PhD awarded/Submitted:

1. Mr.Tanmoy Sarkar , Development of Austempered Grey Iron – Submitted in April 2018
2. Mr.Sujit Das – Studies On The Performance Of Metal Matrix Composites – Submitted in Feb’2015
3. Mr.ShamimHaidar – Development of Aluminum Metal Foam Components – Awarded in 2016
4. Mr.HillolJoarder – An Investigation in to Forgeability and Machining Characteristics of Aluminum Silicon Carbide Metal Matrix Composites – Awarded in 2015
5. Mr.Souravkayal – Development of Metal Matrix Composites in Sand Casting , Gravity Die Casting and Squeeze Casting Process – Awarded in 2014
6. Mr.SouvickGhosh – Tribological Behavior of Al-SiC Metal Matrix Composites – Awarded in 2014
7. Mr. Titas Nandi - Computer Aided Design And Analysis of Castability Of Aluminum Alloy Components - Awarded in2013
8. Tanmoy Das - “Deposition and Characterization of High-k Gate Dielectrics on GaAs for MOSFET Applications” – Awarded in 2013
9. Mr.R.Behera - Study on Solidification Behavior, Forgeability and Machinability ofAluminium Silicon Carbide Composites – Awarded in 2012
10. Mr. P.K. Bardhan –Experimental Study on Machinability of Sintered Iron Components – Awarded in 2012
11. Mr. S. Patra - Development of Sintered Forged Components Under Cold Condition – Awarded in 2010
12. Mr. D. Chatterjee - Development of P/M H.S.S T-15 grade cutting Tool – Awarded in 2008

List of Publication in Journals (National): 21

1. S. Ghosh, P. Sahoo, G. Sutradhar, "Tribological Properties of Al–SiC Metal Matrix Composites: A Comparison Between Sand Cast and Squeeze Cast Techniques" J. Inst. Eng. India Ser. D (July–December 2014) 95(2):161–171- Received Metallurgical and Materials Engineering Division Prize by The Institution of Engineers (I) in 2015
2. G.Sutradhar, H.Joarder, R.Behera,S.Das and S.kayal , "**Properties and Plastic Deformation of LM6/SiCp Metal Matrix Composites**" Indian Foundry Journal , Vol.60 , No.11 , Nov. 2014 ,pp.43-51.
3. PradeepRohatgi and GoutamSutradhar, "**Metal Matrix Composites for Transportation Systems to Conserve Energy**" , Indian Foundry Journal , Vol.60 , No.11 , Nov. 2014 , pp.31-35.
4. GoutamSutradhar," **Riserless Ductile Iron Casting"- A Case Study**" Indian Foundry Journal , Vol.58 , No.8 , Aug. 2012 , pp.53-55.
5. R.Behera, A.Datta , S.Das , K.majumdar , D.Chatterjee&G.Sutradhar, "**An Experimental Study on the effect of Silicon Carbide Particulates on the Mechanical Properties like Machinability and forgeability of Stir-Cast Aluminum Alloy Metal Matrix Composites** ". Published in Indian Foundry Journal, May -2010, vol.56, No.5, pp.43-50).
6. RabindraBehhera and G.Sutradhar, "**Solidification Characteristics and Forgeability of Aluminium**" Transaction of Indian Institute Metals (**Springer**), received, 11 January 2012/ Accepted:9 May DOI 10.1007/S1266-012-0140-y.
7. GoutamSutradhar," **Micro Steps in Foundry Shop Floor Could Enhance the Productivity of Foundry : A Few Case Studies**" Indian Foundry Journal , Vol.58 , No.3 , March. 2012 , pp.44-47.
8. GoutamSutradhar, "Principles of Gravity Die Casting" Metal world , Vol.11, No.2 , Feb 2012, pp.36-38.
9. GoutamSutradhar, "Assessment of Energy Requirement by 2030" Metal world , Vol.10, No.12 , December 2011, pp.22-24.
10. T. Nandi, R. Behera, A. Chanda and G. Sutradhar, "**Study on Solidification Behaviour of LM6 Castings by Using Computer -Aided Simulation Software**". Published in Indian Foundry Journal, Vol. 57, No.3, March 2011, pp. 44-49.
11. GoutamSutradhar, S. Kumar "**Aluminium Metal Foam –A Potential Material for Future**" Indian Foundry Journal, Vol 54, No.2, Feb.2008.
12. Siby Thomas, Mr. KirtyMajumdar, GoutamSutradhar, BuddhadebOraon"**Fuzzy Inference System- Its Application In Casting Defects Diagnosis**", Indian Foundry Journal, Vol. 53, No.9, Sept. 2007, pp 27-31
13. N.Tarafder, G.Sutradhar and S.Misra, "**Effect of Speed, Twist, Draft on Ring –Spun Yarn**" The Indian Textile Journals, Nov'2002 ,pp19-28.
14. G.Sutradhar, A.K.Jha and S.Kumar"**Cold Forging of Sintered Iron Polygonal Discs with Barrelling**", Journal of Institute of Engineers (India), Vol.81, pp.130-134, (Oct'2000).

15. A.Mandal&G.Sutradhar, **“Sand Control in Foundry by Experimental Design”**, Journal of Institute of Engineers (India), Vol.80, pp.37-41, (May 1999).
16. G.Sutradhar, M.M.Godkhindi ,**“Closed Die Axi-symmetric Forgings of Aluminium Powder Components”**, Tool & Alloy Steels , (Oct 1997).
17. G.Sutradhar, A.K.Jha and S.Kumar, **“Development of a Knowledge Based Expert System on P/M Forging”**, Tool & Alloy Steels, December 1996.
18. G.Sutradhar, Abdulla A Bashaswan, A.K.Jha and S.Kumar, **“Development of Sintered Forged Products”**, Industrial Products Finders, pp. 244-246, (April '96).
19. G.Sutradhar, A.K.Jha and S.Kumar, **“Cold Forging of Sintered Polygonal Discs”**,Journal of Institute of Engineers (India), Vol.76, pp.148-152, (Nov'95).
20. G.Sutradhar, **“Influence of Process Parameters on the Quality of Ferrite and Ferrite –Pearlitic grades of Ductile Iron – A case study”**,Indian Foundry Journal, Vol.40, No.3, March1994, pp17-19.
21. G.Sutradhar& A. K.Chakraborty, **“A Study on Friction & Wear in Ductile Iron Bearings Under Dry Sliding Condition”**, Indian Foundry Journal, Vol 33, No.11, Nov'1987 , pp.25-30.

List of Publication in Journals (International): 65

1. T. Sarkar and G. Sutradhar, “Investigation into the microstructure and mechanical properties of thin wall austempered gray iron (TWAGI),” Transactions of the Indian Institute of Metals, Springer, Accepted, May, 2018. DOI :10.1007/s12666-018-1345-5.
2. T. Sarkar, P. K. Bose and G. Sutradhar, “Effect of Austempering Time and Temperature on Microstructure and Mechanical Properties of Austempered Gray Cast Iron (AGI),” Metal Science and Heat Treatment, Springer, Accepted, May 2018.
3. Suswagata Poria, Goutam Sutradhar, Prasanta Sahoo, “Wear and friction behavior of Al-TiB₂-nano-Gr hybrid composites fabricated through ultrasonic cavitation assisted stir casting”, Materials Research Express, 5 (2018) 056509, <https://doi.org/10.1088/2053-1591/aac0df>.
4. Arpan Pal, Suswagata Poria, Goutam Sutradhar and Prasanta Sahoo, “Tribological behavior of Al-WC nano-composites fabricated by ultrasonic cavitation assisted stir-cast method” , Mater. Res. Express 5 (2018) 036521 <https://doi.org/10.1088/2053-1591/aab577>.
5. Suswagata Poria, Goutam Sutradhar and Prasanta Sahoo, “Design of Experiments Analysis of Wear Behavior of Stir Cast Al-TiB₂ Composite in Lubricated Condition”, Volume 5, Issue 2, Part 1, 2018, Pages 5221-5228.
6. Shamim Haidar, GoutamSutradhar, “Frictional Behavior of Aluminum MMC Foam Synthesized using Dual Foam Agent” , International Journal of Surface Engineering & Inter disciplinary Material Science (IJSEIMS) – Accepted for publication.
7. T. Sarkar, P. K. Bose and G. Sutradhar, Mechanical and tribological characteristics of copper alloyed austempered gray cast iron (AGI), Materials Today: Proceedings, vol. 5(2), pp. 3664-3673, 2018.

8. T. Sarkar and G. Sutradhar, "Tribological Characterization of Copper Alloyed Austempered Gray Cast Iron (AGI)," *Material Research Express*, IOP Science, Manuscript Number: MRX-107610.R2, Accepted, 2018
9. Tanmoy Sarkar, Goutam Sutradhar, "Relationship between Matrix-Microstructure and Mechanical Properties of Copper Alloyed Thin Walled Austempered Grey Cast Iron (TWAGI)", *International Journal of Cast Metals Research*, vol. 31 (1) pp. 20-28, 2017.
10. Suswagata Poria, Goutam Sutradhar, Prasanta Sahoo, "High Temperature Tribological Behavior Of Stir-Cast Al-TiB₂ Metal Matrix Composites",
<https://doi.org/10.1142/S0218625X18501226>
11. Suswagata Poria, Goutam Sutradhar and Prasanta Sahoo, "Design of Experiments Analysis of Friction Behavior of Al-TiB₂ Composite", Volume 4, Issue 2, Part A, 2017, Pages 2956-2964.
12. Suswagata Poria, Goutam Sutradhar, Prasanta Sahoo, "Design of Experiments Analysis of Friction Behavior of Al-TiB₂ Composite", *Materials Today: Proceedings*, (2017) 4:2, 2956-2964.
13. Suswagata Poria, Goutam Sutradhar, Prasanta Sahoo, "Wear and Friction Behavior of Stir Cast Al-TiB₂ Metal Matrix Composites with Various Lubricants" *Tribology in Industry* (2016) 38:4
14. Suswagata Poria, Prasanta Sahoo, Goutam Sutradhar, "Wear performance optimization of stir cast Al-TiB₂ metal matrix composites using Taguchi design of experiments", *IOP Conference Series: Materials Science and Engineering*, (2016) 149:1
15. Suswagata Poria, Prasanta Sahoo, Goutam Sutradhar, "Tribological Characterization of Stir-cast Aluminium-TiB₂ Metal Matrix Composites" *Silicon* (2016) 8: 591-599, DOI 10.1007/s 12633-016-9437-5
16. Shouvik Ghosh, Prasanta Sahoo, Goutam Sutradhar "Study of Tribological Characteristics of Al-SiC Metal Matrix Composite" *International Journal of Advanced Materials Research* Vol. 1, No. 2, 2015, pp. 53-58.
17. Shouvik Ghosh, Prasanta Sahoo, Goutam Sutradhar, "Friction Performance Optimization of Al-SiC Metal Matrix Composite" *International Journal of Materials Chemistry and Physics* Vol. 1, No. 3, 2015, pp. 276-280
18. H. Joardar, G. Sutradhar, N. S. Das, S. Singh, (2014), "Experimental and Simulation Aspects Regarding LM6/SiCp Composite Plastic Deformation under Different Frictional Conditions", *Manufacturing Technology and Research*, Vol. 10, No.1, pp. 68-78.
19. Shouvik Ghosh, Prasanta Sahoo and Goutam Sutradhar, "Wear Characteristics Optimization of Al-7.5%SiC Metal Matrix Composite Using Taguchi Method" *Advanced Materials Manufacturing & Characterization* Vol4 Issue 2 (2014)
20. Sujit Das, P.K. Bardhan, R. Behera, S. Patra, G. Majumdar, B. Oraon, G. Sutradhar "Experimental Analysis of Variation in Hardness for Sintered SiCp Reinforced AMMCS Using the Response Surface Method". *International Journal of Research in Engineering and Technology (IJRET)* e-ISSN: 2319-1163, ISSN: 2321-7308.
21. H. Joardar, G. Sutradhar, N.S. Das, S. Singh, Application of response surface methodology for determining cutting force model in turning of LM6/SiC_p metal matrix composite, *Measurement*, Volume 47, January 2014, pp. 452-464

22. Souvik Ghosh, Prasanta Sahoo & Goutam Sutradhar, "Friction Performance of Al-SiCp Metal Matrix Composites using Taguchi Method" International Society Research Network, ISRN, Vol.11, 2013.
23. Shouvik Ghosh, Prasanta Sahoo, and Goutam Sutradhar, "Tribological Performance Optimization of Al-7.5%SiCp Composites Using the Taguchi Method and Grey Relational Analysis" Journal of Composite, Volume 2013, Article ID 274527.
24. Sujit Das, R. Behera, S. Koyal, G. Majumdar, B. Oraon, G. Sutradhar, "Study on the effect of heat treatment on the mechanical properties and forgeability of AMMCs", International Journal of Emerging Trends in Engineering and Development Issue 3, Vol.2 (March 2013) ISSN 2249-6149, pp 62-72.
25. Souvik Ghosh, Prasanta Sahoo & Goutam Sutradhar, "Wear Behavior of Al-SiC Metal Matrix Composites and Optimization using Taguchi Method and Grey Relational Analysis" Journal of Minerals and Materials Characterization and Engineering, 2012, 11, 1085-1094.
26. Sujit Das, R. Behera, S. Koyal, G. Majumdar, B. Oraon, G. Sutradhar "Study on the effect of heat treatment on the mechanical properties and forgeability of AMMCs". Published in Journal of International Journal of Emerging Trends in Engineering and Development Issue 3, Vol.2 (March 2013), ISSN 2249-6149.
27. Sujit Das, R. Behera, P.K. Bardhan, S. Patra, B. Oraon, G. Sutradhar "Experimental Analysis of Density of Sintered SiCp Reinforced AMMCs Using the Response Surface Method" International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-3, Issue-6, November 2013, ISSN: 2278-3075
28. H. Joardar, G. Sutradhar, N.S. Das, S. Singh Barreling of solid composite (LM6/SiCp) cylinders under uni-axial compressive load, Int. Journal of Applied Sciences and Engineering Research, Vol. 2, Issue 4, 2013, pp. 435-445
29. Hillol Joardar, Goutam Sutradhar and Nitai Sundar Das, "FEM Simulation and Experimental Validation of Cold Forging Behavior of LM6 Base Metal Matrix Composites", Published in International Journal of Minerals and Materials Characterization and Engineering, 2012, 11, 989-994, (Sept. 2012)
30. Sourav Kayal, Rabindra Behera and G. Sutradhar, "Mechanical properties of the as-cast silicon carbide particulate reinforced Aluminium alloy matrix composites", Published in International Journal of Current Engineering and Technology, Vol.2, No.3 (Sept. 2012)
31. Sourav Kayal, Rabindra Behera and G. Sutradhar, "Castability of Al-SiCp Metal Matrix Composites in Thin Walled Castings", Published in International Journal of Engineering Science and Technology (IJEST), Vol. 4, No. 07, pp.3481-3488, July 2012.
32. T. Nandi, R. Behera, S. Kayal, A. Chanda, G. Sutradhar "Optimization of Riser size of Aluminium alloy (LM6) castings by using conventional method and computer simulation technique" Published in International Journal of Scientific and Engineering Research. Vol. 2, Issue 11, Nov, 2011
33. H. Joardar, N.S. Das, G. Sutradhar, An experimental study of effect of process parameters in turning of LM6/SiCp metal matrix composite and its prediction using response surface methodology, *International Journal of Engineering, Science and Technology*, Vol. 3, No. 8, 2011, pp. 132-141.

34. RabindraBehera, S. Das, D Chatterjee, G. Sutradhar, "Forgeability and Machinability of Stir-cast Aluminum Alloy Metal Matrix Composites". Published in International Journal of Minerals & Materials Characterization & Engineering, Vol. 10, No. 10, pp. 923-939, 2011.
35. RabindraBehera, D.Chatterjee and G.Sutradhar "Machinability of LM6/SiCp metal matrix composites with tungsten carbide cutting tool inserts", ARPN Journal of Engineering and Applied Sciences, Vol. 7, No. 2, February 2012, ISSN 1819-6608.
36. RabindraBehera, D Chatterjee and G Sutradhar "Effect of reinforcement particles on the fluidity and solidification behavior of the stir cast aluminum alloy metal matrix composites", American Journal of Materials Science, 2012, 2(3): 53-61 DOI: 10.5923/j.materials.20120203.04.
37. RabindraBehera, NiharRanjanMohanta, G.Sutradhar, "Distribution of SiC particulates in stir cast Aluminium alloy Metal matrix composites and its effect on mechanical properties" International Journal of Emerging trends in Engineering and Development ISSN 2249-6149 Issue 2, Vol.1 (January-2012).
38. Sujit Das, R. Behera, G. Majumder, B. Oraon, G. Sutradhar, "An experimental investigation on the machinability of powder formed silicon carbide particle reinforced aluminium metal matrix composites". Published in International Journal of Scientific & Engineering Research, Volume 2, Issue 7, July - 2011.
39. SouravKayal, R.Behera, T.Nandi, G,Sutradhar"Solidification behavior of stir-cast Al alloy metal matrix composites" Published in International Journal of Applied Engineering Research, Dindigul, Vol.2, No 2, 2011.
40. S.Kayal, R.Behera&G.Sutradhar"Effect of Silicon Carbide Particle on Fluidity of the LM-6 /SiCp Metal Matrix Composites" Published in International Journal of Emerging trends in Engineering and Development, Vol. 3, Issue 1, November, 2011.
41. SouvikGhosh , RabindraBehera , GoutamSutradhar&PrasantaSahoo,"Optimization of Friction Performance of Al- 5% SiC Metal Matrix Composites using Taguchi Method", Journal of Tribology Research 1(2) , July – Dec 2010 pp.83-89.
42. T Nandi , R.Behera , S Kayal , A Chanda, G.Sutradhar"Study on Solidification Behavior of Aluminium alloy (LM6) Castings by using Computer aided Simulation software"Published in International Journal of Engineering Research and Applications (IJERA) Vol. 1, Issue 2, pp.157-164, May 2009.
43. T.Nandi, R. Behera K. Majumdar&G.Sutradhar "Investigation on the solidification behavior of aluminium alloy casting by using computer aided simulation software".(Accepted in Metal Casting Technology, an International journal, Australia).
44. RabindraBehera, S. Kayal& G. Sutradhar, "Solidification behavior and detection of hotspots in aluminium alloy castings: Computer aided analysis and experimental validation". Published in International Journal of Applied Engineering Research, Dindigul, Vol.1, No 4, 2011.
45. RabindraBehera, S Kayal, D Chatterjee, G. Sutradhar, "Solidification behavior and forgeability of stir-cast aluminum alloy metal matrix composites", published in the Canadian Journal of pure & applied Sciences: An International Journal, vol. 5, No 2, June-2011.
46. RabindraBehera, K. Majumdar, A.Dutta, G.Sutradhar, "Effect of machining parameters on the machinability of SiCp reinforced aluminium alloy based metal matrix composites produced by stir cast technique", Published in the journal of Manufacturing Technology & Research: An International Journal, Vol.3 No. 3 & 4 , pp. 13-20 , July – Dec' 2010.

47. Sujit Das, RabindraBehera, ArijitDatta, GoutamMajumdar, BudhadebaOraon, GoutamSutradhar, "Experimental Investigation on the Effect of Reinforcement Particles on the Forgeability and the Mechanical Properties of Aluminum Metal Matrix Composites".Published in International journal of Materials Sciences and Applications, Nov.2010, 1, 310-316.
48. P.K.Bardhan, R.Behera, S.Patra, G.Sutradhar, "Analysis of Surface Roughness of Machined Surface of Powder Metallurgy Components", International Journal of Scientific & Engineering Research, Volume 2, Issue 6, June-2011, ISSN 2229-5518.
49. RabindraBehera, A.Datta, D.Chatterjee, G.Sutradhar, "Role of SiCp on the solidification rate and forgeability of stir cast LM6/SiCp MMCs" Published in International Journal of Scientific & Engineering Research, Volume 2, Issue 1, January- 2011, ISSN 2229- 5518.
50. P.K.Bardhan, S Patra and G.Sutradhar , "Analysis of Density of Sintered Iron Powder Component using the response Surface Method", Published on August-2010 in Materials Science & Application Journal ,USA,2010,1,152-157.
51. P.K.Bardhan, S Patra and G.Sutradhar "Predication of Machinability of Sintered Iron Component using Response Surface Method" , Published in the Canadian Journal of pure & applied Sciences: An International Journal , vol. 4, No 1, pp.1119-1126,2010.
52. S.Patra, A.Mandal,B.Oraon and G.Sutradhar, "Non-linear modeling using Central Composite Design to predict the Density and Relative Density of Sintered Iron Powder" , Published in the journal of Manufacturing Technology & Research: An International Journal, Vol.3,No.3&4, July-Dec. 2008, Page 82-88.
53. SuprakashPatra, GoutamSutradharandAmitavaMandal " FEM Simulation with Experimental Verification of Sintered Forged Components" Canadian Journal of pure & applied sciences, Vol.2, No. 2, May 2008, pp 417-424.
54. D.Das, G.Sutradhar and S.Kumar, "An Application of Short Bearing Theory to Analyze the Effect of Variable Permeability of Copper Infiltrated Bearing Using Non-Newtonian Fluid". Manufacturing Technology & Research An International Journal, Vol.No3,No.3&4,July-Dec 2007, pp52-58.
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56. P.Das,S.Patra, T.Chakroborty,G.Sutradhar,M.Mitra, "Cold Forging of Sintered Hollow Polygonal Discs with Barreling", Journal of Material Science, Springer publication, 43 : 3180-3188 , 2008.
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65. G.Sutradhar, A.K.Jha and S.Kumar, “Production of Sintered Forged Components”, Journal of Materials Processing Technology, Vol.41, No.2, pp.143-169, (Feb’94) Published from the Netherlands.

Book Published: 2

1. “**Principles of Foundry Process Design**” – New Age International (P) Limited , Publishers , New Delhi – Published in Oct’2012.
2. “**Design & Manufacturing –An Integrated Approach**” – Coauthored with Professor Surender Kumar, Head of Production Engineering Department, BIT Mesra, Published from OXFORD IBH, New Delhi – Published in 1996

Chapter Contribution to a Foreign Book :

One Chapter Title “**Application of Fuzzy Expert System in Medical Treatment**” was contributed in a book Title **Fuzzy Expert System for Disease Diagnosis** published from IGI Global , USA in 2014.
Coauthors : Dr.(Mrs.) KajalGhosal&Mr.ParthaHaldar

Sponsored Projects (Completed/Ongoing): 7 (Seven)

1. “**SMART FOUNDRY – 2020**” - by Department of Science & Technology , New Delhi under TSDP scheme in “**Advanced Manufacturing Technologies**” – Sanctioned by DST , New Delhi under Technology System Development Program (TSDP) - Ongoing
2. **Investigation of Forgeability and Machinability of Sintered Titanium Components – CSIR , New Delhi [sanctioned for three years 2012-2015] – Grant Rs. 14 Lakhs - Continuing – File No. 22(0587) / 12/EMR-II dated 02.04.2012 – Completed**
3. **A study on Cast-ability of Aluminum-Silicon carbide Metal Matrix composites – PURSE (Department of Science & Technology, New Delhi) – Sanctioned 25 Lakhs [Three years duration] - Completed**

4. **Prediction of Forgeability of Sintered and Composite materials using Response Surface Method.- the University Grant Commission , New Delhi.- grant Rs. 9,96,400 - Completed. File No. 32-88/2006 (SR) Dated: 09.03.2007, Completion 2011.**
5. **Development of Powder Metallurgy H.S.S Cutting Tool Sponsored By AICTE (New Delhi) – Grant Rs.9,00,000/- - Completed. File No. 8021/RID/NPROJ/R&D-174/2002-03 (Re-validated 2003-04), Year of completion 2008.**
6. **I.I.P.Cproject to develop the interaction between the Industries and the Institute and also to develop short term courses for the local educated or semi educated young boys so that they can start their own venture during 2003-2005.**
7. **MODROBS Project on the Set up of Mechatronics Laboratory in the Mechanical Engineering Laboratories during 2003-2005.**

Industrial Projects / Consultancy: 3 (Three)

- (i) Providing Technical support service to N.F.Forging Limited, Sankrail Howrah towards supplying Methoding of Central Body Coupler Components as per RDSO's requirements and to meet the technical parameters in a cost effective manner – Continuing from 17.10.2017
- (ii) Providing Technical support service towards modernization of Foundry at Angus works of Braithwaite & Co. Ltd., 5, Hide Road, Kolkata - 700043 comply with RDSO's requirements and to meet the technical parameters in a cost effective manner to facilitate production of 25 ton axle load bogie,70 BD Coupler&71 BD Draft Gear as per Scope of work & conditions given in the EOI document– **Continuing from 21.11.2016**
- (iii) **Worked as Foundry consultant of ABB Global services limited, Bangalore** for the stator castings of Finland Motors through IIPC, Jadavpur University. – **Completed**

Details of Membership in Societies: 5

1. The Institution of Engineers (I) – Fellow Member
2. The Institute of Indian Foundrymen – Vice Chairman , IIF Eastern Region
3. Indian Institute of Metals – Past Council Member of Kolkata Chapter
4. Investment Casting Institute of India – Life Member
5. Powder Metallurgy Society of India – Life Member

3.(v) Certified details from the present employer for :-

PhD Thesis	Title and Name of Student	Year of Award	University/ Institution	No. of Sponsored Projects/Consultancy (completed)
11 Separate sheet is attached as 3.(v) A	21/ 57			07 (Seven) Separate sheet is attached as 3.(v) B

3. (vii) Any other essential documents about my candidature

Book Published: 2

1. **“Principles of Foundry Process Design”** – New Age International (P) Limited , Publishers , New Delhi – Published in Oct’2012.

2. **“Design & Manufacturing –An Integrated Approach”** – Coauthored with Professor Surender Kumar, Head of Production Engineering Department, BIT Mesra, Published from OXFORD IBH, New Delhi – Published in 1996

3.Chapter Contribution to a Foreign Book :

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Coauthors : Dr.(Mrs.) KajalGhosal&Mr.ParthaHaldar

4.Sponsored Projects (Ongoing): 1 (One)

1. **“SMART FOUNDRY – 2020”** - by Department of Science & Technology , New Delhi under TSDP scheme in **“Advanced Manufacturing Technologies”** – Sanctioned by DST , New Delhi under Technology System Development Program (TSDP) - Ongoing

5. Industrial Projects / Consultancy: 3 (Three)

- (i) Providing Technical support service to N.F.Forging Limited, Sankrail Howrah towards supplying Methoding of Central Body Coupler Components as per RDSO’s requirements and to meet the technical parameters in a cost effective manner – Continuing from 17.10.2017
- (ii) Providing Technical support service towards modernization of Foundry at Angus works of Braithwaite & Co. Ltd., 5, Hide Road, Kolkata - 700043 comply with RDSO’s requirements and to meet the technical parameters in a cost effective manner to facilitate production of 25 ton axle load bogie,70 BD Coupler&71 BD Draft Gear as per Scope of work & conditions given in the EOI document– **Continuing from 21.11.2016**

6. Cluster Development:

Convener of the Project sponsored by Technology Information Forecasting Assessment Council (TIFAC), DST, New Delhi on **“A study on the Technology Gap Analysis of Howrah Foundry Cluster”** – Completed

7. Reviewer

(i) Reviewed 20 DVDs [about 40 hours] of recording and time line of 4 weeks to launch a portal containing courses on **Casting Design and Simulation** by **Prof. B. Ravi, Chair Professor, Department of Mechanical Engineering , IIT Bombay** organized by Dept of Chemical Engineering, IIT Bombay under **Talk To A Teacher Project** funded by **Ministry of Human Resources and Development (MHRD)** , New Delhi.

(ii) **Reviewer of The Institution of Engineers (India) Mechanical & Production Engineering Division.**